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(54) Title: MODULATION AND DEMODULATION OF OFDM SIGNALS
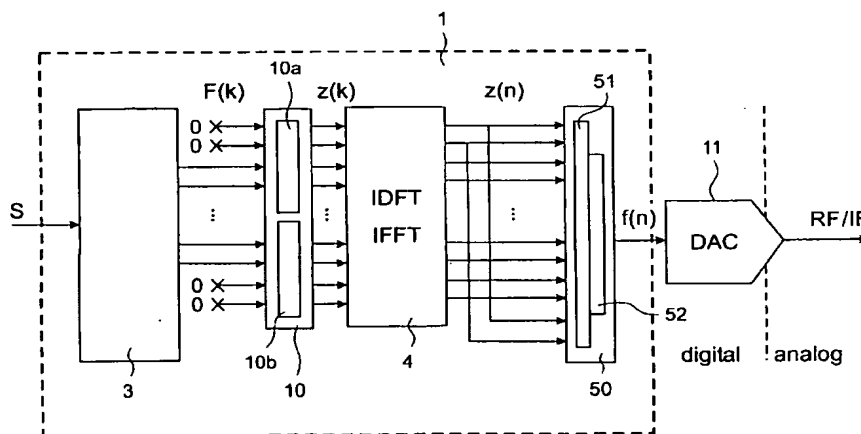
(57) Abstract: The invention relates to a method for modulating sub-carrier symbols to an intermediate-frequency OFDM signal having even and odd samples, including following steps: - transforming a number N of the sub-carrier symbols to pre-processed sub-carrier symbols; - performing a complex inverse discrete Fourier transformation (IDFT) on the pre-processed sub-carrier symbols to generate complex output symbols; and - transforming the complex output symbols to the intermediate-frequency OFDM signal, wherein the sub-carrier symbols are transformed so that the even and odd samples of the intermediate-frequency OFDM signal are given by real and imaginary parts of the complex output symbols.

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